

02-10-1999

FORM PTO-1595
(Rev. 6/93)

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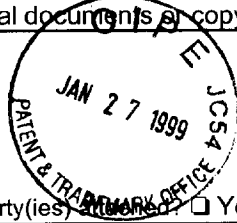
To the Assistant Commissioner of Patents and Trademarks.
Please record the attached original documents or copy thereof.

ATTN. BOX ASSIGNMENTS

1. Name of conveying party(ies):
Xumu Zhang

(Canadian Co. No. 315219-7)

Additional names(s) of conveying party(ies) Yes No



2. Name and address of receiving party(ies):

Name: The Penn State Research Foundation

Internal Address: _____

Street Address: 304 Old Main

City: University Park

State: Pennsylvania ZIP: 16802-7000

Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other _____

Execution Date: December 11, 1998

4. Application number(s) or patent number(s):

09,189,867

If this document is being filed together with a new application, the execution date of the application is: December 11, 1998

A. Patent Application Nos.

09/189,867

B. Patent No.(s)

Additional numbers attached? YES NO

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.

Internal Address: _____

Street Address: 1300 I Street, N.W.
Suite 700

City: Washington State: D.C. ZIP: 20005-3315

6. Total number of applications and patents involved 1_

7. Total fee (37 CFR § 3.41): **\$ 40.00**

- Enclosed
- Authorized to be charged to deposit account

8. Deposit account number: 06-0916

(Attach duplicate of page if paying by deposit account.)

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Richard B. Racine, Reg. No. 30,415
Rouget F. Henschel, Reg. No. 39,221
Name of Person Signing

Signature

1/27/99
Date

Total number of pages including cover sheet, attachments, and document 2

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02-10-1999 14:50:51

ASSIGNMENT

WHEREAS I, the below named inventor, hereinafter referred to as Assignor, have made an invention entitled:

**ASYMMETRIC SYNTHESIS CATALYZED BY TRANSITION
METAL COMPLEXES WITH CHIRAL LIGANDS**

for which I executed an application for United States Letters Patent concurrently herewith or filed an application for United States Letters Patent on November 12, 1998 (Serial No. 09/190,155) and

WHEREAS, The Penn State Research Foundation, a corporation of the State of Pennsylvania, whose post office address is 304 Old Main, University Park, Pennsylvania 16802-7000 (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that for and in consideration of the sum of One Dollar (\$1.00) in hand paid and other good and valuable consideration the receipt of which from assignee is hereby acknowledged, I, as assignor, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, my entire right, title, and interest in and to this invention, provisional applications 60/065,577, 60/085,786 and 60/090,164, filed on November 12, 1997, May 18, 1998, and June 22, 1998, respectively, and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of the above provisional application (if any), as well as all rights to claim priority on the basis of this application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and I hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;


AND, I HEREBY covenant that I have the full right to convey the interest assigned by this Assignment, and I have not executed and will not execute any agreement in conflict with this Assignment;

AND, I HEREBY further covenant and agree that I will, without further consideration, communicate with assignee, its successors and assigns, any facts known to me respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

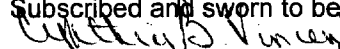
IN TESTIMONY WHEREOF, I have hereunto set my hand.

County of Centre)
State of PA)

ss.



Xumu Zhang
276 Camelot Lane
State College, PA 16803
Dated: 12/11/98

Subscribed and sworn to before me this 11th day of Dec., 1998.
 Notary Public

